Tutorial 3

Problem 1
Search the internet for a short manual of the ARM instruction set. How many different instruction types did the first ARM implementation have?

Problem 2
Search the internet for information about
1. the Fortran compiler of Cray
2. the Occam programming language for Transputer systems
Are the fundamental concepts of these systems still applicable today?

Problem 3
What effect did Gödel’s incompleteness theorem have on the development of computer architecture? Name a specific example at the design of modern processors.